Title (en)

Engine comprising an air cooling design for tail-cone generator installation

Title (de)

Motor mit Luftkühlungsdesign für Heckkonusgeneratoranlage

Title (fr)

Moteur comprenant un refroidissement à air pour installation de générateur de cône de sortie

Publication

EP 2708701 B1 20180418 (EN)

Application

EP 13173980 A 20130627

Priority

US 201213616230 A 20120914

Abstract (en)

[origin: EP2708701A2] A system for cooling a generator (60) mounted in the tail-cone (58) of an engine comprises a fairing (66), which receives through an inlet (68) thereof air from a bypass duct (38) and directs the bypass air (40) towards a cavity (62) of the tail-cone (58) for cooling the generator. The bypass air (40) is then expelled through an outlet (76) of a support strut (56) positioned in fluid communication with the tail-cone cavity (62). The fairing inlet (68) and the strut outlet (76) are both positioned in a plane substantially perpendicular to a longitudinal plane of the engine. In this manner, circulation of the bypass air through the fairing (66), the tail-cone cavity (62), and the strut (56) may be achieved. The bypass air directed through the fairing (66) further enables cooling of service lines (64) accommodated in the fairing (66). A lobe mixer (52) is further used to direct the fairing (66) and shield the latter from core exhaust.

IPC 8 full level

F01D 15/10 (2006.01); **F02C 7/12** (2006.01)

CPC (source: EP US)

F01D 15/10 (2013.01 - EP US); **F02C 7/12** (2013.01 - EP US); Y02T 50/60 (2013.01 - EP US)

Cited by

GB2600524A; FR3036442A1; EP3002432A1; EP4194679A1; US10364691B2; US11578657B2; EP3708787A1; WO2018067231A3; US10422282B2; US11585291B2; US11242156B2; US11719113B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2708701 A2 20140319; **EP 2708701 A3 20170215**; **EP 2708701 B1 20180418**; CA 2809356 A1 20140314; CA 2809356 C 20200310; US 2014079530 A1 20140320; US 9097134 B2 20150804

DOCDB simple family (application)

EP 13173980 A 20130627; CA 2809356 A 20130311; US 201213616230 A 20120914